

WHAT IS CLAIMED IS:

1. An apparatus for testing data paths and/or video sources on an integrated circuit, comprising:

a switching device configured to couple one or more video sources to one or more destinations, the switching device including a plurality of input and output ports, each input port being connectable to one or more of the output ports via data-path, the switching device including a testing output port selectably connectable to one or more of the data-paths; and

a controller coupled to the switching device and configured to control the testing output port to (i) connect a selected one of the data-paths to a data collection device and (ii) permit analysis of at least one from the group including (a) one or more of the data paths and (b) one or more of the video sources, via the selected data-path.

2. The apparatus of claim 1, wherein the switching device includes video cross-bar devices.

3. The apparatus of claim 1, wherein the testing output port includes a cyclic redundancy checksum (CRC) port.

4. The apparatus of claim 1, wherein the analysis includes CRC checksum checking.

5. The apparatus of claim 1, wherein data collection device is a CRC module.

6. An apparatus comprising:

a first switching device having a plurality of first input and output ports coupled together via first internal paths;

at least a second switching device including an input side having a plurality of second input ports and an output side having a plurality of second output ports, the second input and output ports being coupled together via second data paths, the first output ports being connected to corresponding ones of the second input ports, the second switching device including a testing output port;

wherein the testing output port is configured to permit monitoring of at least one from the group including (i) one or more of the first input and output ports, (ii) one or more of the first data paths, (iii) one or more of the second input and output port, and (iv) one or more of the second data paths.

7. The apparatus of claim 6, further comprising a data collection device configured for coupling to the testing output port.

8. The apparatus of claim 7, wherein the data collection device is a cyclic redundancy check (CRC) module.

9. The apparatus of claim 8, wherein the monitoring includes CRC checksum checking of internal states of devices coupled to one or more of the first and second input and output ports.

10. The apparatus of claim 9, further comprising one or more scaling devices connected between selected ones of the between the first output ports and the second input ports, wherein the testing output port facilitates CRC checksum checking of the one or more scaling devices.